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WHAT IS CLAIMED IS:

	1	1. A transceiver for use within a multi-tier system bus configuration
	2	comprising:
	3	means for independently receiving instructions via the system bus from one or more
	4	devices connected to the system bus;
	5	means for independently transmitting instructions via the system bus to one or more
	6	devices connected to the system bus.
non ted took flag	7	means for buffering instructions received via the system bus; and
44 mm mm	8	means for buffering instructions transmitted via the system bus;
	9	wherein said means for independently receiving instructions is configured to
	10	discriminate between different types of input; and
	11	wherein said means for independently transmitting is configured to interleave
	12	instructions.

- 2. The transceiver of claim 1, wherein said means for transmitting is configured to interleave instructions based upon instruction type.
- 3. The transceiver of claim 2, wherein said instructions are contained within packets and said means for transmitting is configured to interleave instructions based upon packet type.
- 4. The transceiver of claim 3, wherein said packets comprise direct memory access (DMA) and control action (CA) packet types.

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- The transceiver of claim 1, wherein said means for receiving is configured to discriminate between different types of input based upon received instruction type.
- The transceiver of claim 5, wherein said input is contained within packets
 and said means for receiving is configured to discriminate between different types of input
 based upon packet type.
 - 7. The transceiver of claim 6, wherein said packets comprise direct memory access (DMA) packets and Control Action (CA) packet types.
 - 8. The transceiver of claim 1, wherein said means for receiving is configured to provide specialized control functions.
- 1 9. The transceiver of claim 8, wherein said specialized control functions 2 include: a reset function, a timer function, and a broadcast function.